

Jan. 21. 2004 3:37PM FRISHAUF & PARTNERS

No. 6948 P. 2/8  
From: CHICK

Appl. No. 10/098,668  
Reply to Office Action of December 31, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Original) A method for preparing a radiation image conversion panel, which comprises the steps of:

- (a) applying onto a support a stimuable phosphor coating composition comprising a stimuable phosphor and a polymer resin to form a stimuable phosphor layer;
- (b) drying the stimuable phosphor layer; and
- (c) subjecting the stimuable phosphor layer on the support to a compression treatment employing a calender roller which comes into contact with the stimuable phosphor layer to form the radiation image conversion panel, wherein the calender roller has a crown value of 10 to 1,000  $\mu\text{m}$ .

3. (Canceled)

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4. (Canceled)

5. (Original) The method for preparing a radiation image conversion panel of claim 2, wherein the polymer resin in the step (a) comprises a polymer having a glass transition point of not more than 5 °C and not less than - 30 °C and the polymer accounts for at least 50 weight % of the polymer resin in the stimuable phosphor layer; and the temperature of the calender roller in the step (c) is not less than the glass transition point of the polymer resin and not more than a glass transition point of the support.

6. (Canceled)

7. (Original) The method for preparing a radiation image conversion panel of claim 2, wherein the compression treatment in the step (c) is carried out at a pressure of 500 to 5,000 N/cm and at a temperature of 50 to 150 °C.

8. (Canceled)

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9. (Currently Amended) ~~The method for preparing a radiation image conversion panel of claim 1,~~ A method for preparing a radiation image conversion panel, which comprises the steps of:  
(a) applying onto a support a stimuable phosphor coating composition comprising a stimuable phosphor and a polymer resin to form a stimuable phosphor layer;  
(b) drying the stimuable phosphor layer; and  
(c) subjecting the stimuable phosphor layer on the support to a compression treatment employing a calender roller which comes into contact with the stimuable phosphor layer to form the radiation image conversion panel, wherein the calender roller comprises a resin and the surface of the calender roller has a Shore D hardness of D80 to D97 ° and wherein the calender roller in the step (c) has a center-line mean surface roughness Ra of 0.05 to 3  $\mu$ m.

10. (Original) The method for preparing a radiation image conversion panel of claim 2, wherein the calender roller in the step (c) has a center-line mean surface roughness Ra of 0.05 to 3  $\mu$ m.

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11. (Currently Amended) ~~The method for preparing a radiation image conversion panel of claim 3,~~ A method for preparing a radiation image conversion panel, which comprises the steps of:

(a) applying onto a support a stimuable phosphor coating composition comprising a stimuable phosphor and a polymer resin to form a stimuable phosphor layer, wherein the polymer resin comprises a polymer having a glass transition point of not more than 5 °C and not less than - 30 °C and the polymer accounts for at least 50 weight % of the polymer resin in the stimuable phosphor layer;

(b) drying the stimuable phosphor layer; and

(c) subjecting the stimuable phosphor layer on the support to a compression treatment employing a calender roller which comes into contact with the stimuable phosphor layer to form the radiation image conversion panel, wherein the temperature of the calender roller is not less than the glass transition point of the polymer resin and not more than a glass transition point of the support and wherein the calender roller in the step (c) has a center-line mean surface roughness Ra of 0.05 to 3 µm.

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12. (Canceled)

13. (Original) The radiation image conversion panel prepared according to the method of claim 2.

14. (Canceled)

15. (Canceled)

16. (Original) The radiation image conversion panel of claim 13, wherein the stimuable phosphor incorporated in the stimuable phosphor layer is an Eu added BaFI compound.

17. (Canceled)

18. (Canceled)

19. (Original) A method for capturing a radiation image, which comprises the steps of:

(a) irradiating the radiation image conversion panel of claim 13 from the support side of the radiation image conversion panel

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with X-ray which passes through an object being diagnosed so that  
to store a radiation energy;

(b) stimulating the stimuable layer with an electromagnetic wave  
to produce stimulated luminescence; and

(c) reading the stimulated luminescence from the stimuable  
phosphor layer side.

20. (Canceled)

21. (Canceled)